d hist

```
     (FILE 'USPAT' ENTERED AT 13:30:29 ON 04 AUG 1999)
L1          1859 S MOVING IMAGE
L2         37321 S VOICE
L3          2610 S STILL IMAGE
L4          6078 S VOICE (5A) (CONTROL OR CONTROLS OR CONTROLLED)
L5             6 S L1 AND L2 AND L3 AND L4
                 SET HIGH OFF
L6             6 S L5 AND L5
                 SET HIGH ON
L7             6 S L6 AND L1 AND L3 AND L4
L8          5083 S VOICE (3A) CONTROL?
L9            53 S L8 (5A) IMAGE
L10          864 S 704/270-278/CCLST
L11            3 S L9 AND L10
L12        69873 S CAMERA

=> s l9 and l12

L13          21 L9 AND L12

=> d 1-
```

1. 5,903,734, May 11, 1999, Multimedia information communication apparatus which stores received information in an encoded state; Makoto Chida, 709/232, 231 [IMAGE AVAILABLE]

2. 5,893,037, Apr. 6, 1999, Combined electronic/silver-halide image capture system with cellular transmission capability; Samuel Reele, et al., 455/556; 348/14, 64; 455/557 [IMAGE AVAILABLE]

3. 5,867,209, Feb. 2, 1999, Television telephone which displays image data having a first precision degree and image data having a second precision degree on a respective display region of a display screen; Yuichiro Irie, et al., 348/19, 18; 379/93.17 [IMAGE AVAILABLE]

4. 5,821,984, Oct. 13, 1998, Communication conference system with storage of conference information including proceedings data; Kan Ito, et al., 348/15; 370/260, 261; 379/93.21, 102.02, 102.04, 202 [IMAGE AVAILABLE]

5. 5,796,435, Aug. 18, 1998, Image coding system with adaptive spatial frequency and quantization step and method thereof; Itaru Nonomura, et al., 348/405, 416 [IMAGE AVAILABLE]

6. 5,745,711, Apr. 28, 1998, Display control method and apparatus for an electronic conference; Chiho Kitahara, et al., 345/330, 332 [IMAGE AVAILABLE]

7. 5,737,491, Apr. 7, 1998, Electronic imaging system capable of image capture, local wireless transmission and voice recognition; James D. Allen, et al., 704/270; 348/211; 396/283; 704/272, 275 [IMAGE AVAILABLE]

8. 5,724,579, Mar. 3, 1998, Subordinate image processing apparatus; Takeshi Suzuki, 707/104; 358/403, 453; 382/282, 305 [IMAGE AVAILABLE]

9. 5,712,649, Jan. 27, 1998, Head-mounted image display; Kenji Tosaki,

345/8, 7; 359/13, 630 [IMAGE AVAILABLE]

10. 5,619,252, Apr. 8, 1997, Video telephone system and method for transmitting and receiving signals when there is a failure in the system; Misao Nakano, 348/14, 17; 370/216; 379/93.17, 279 [IMAGE AVAILABLE]

11. 5,587,735, Dec. 24, 1996, Video telephone; Kiyoshi Ishida, et al., 348/14, 16, 17; 379/100.15 [IMAGE AVAILABLE]

12. 5,485,897, Jan. 23, 1996, Elevator display system using composite images to display car position; Kimio Matsumoto, et al., 187/399, 395, 397 [IMAGE AVAILABLE]

13. 5,473,366, Dec. 5, 1995, Television-telephone apparatus having a message-keeping function and an automatic response transmission function; Eiji Imaeda, et al., 348/14, 17, 19; 379/88.13 [IMAGE AVAILABLE]

14. 5,418,560, May 23, 1995, Voice and image data communication apparatus; Hitoshi Yasuda, 348/14; 379/93.23 [IMAGE AVAILABLE]

15. 5,400,068, Mar. 21, 1995, Video telephone; Kiyoshi Ishida, et al., 348/14, 13, 16; 379/100.15 [IMAGE AVAILABLE]

16. 5,392,158, Feb. 21, 1995, Head-mounted image display; Kenji Tosaki, 359/633; 348/42; 359/630 [IMAGE AVAILABLE]

17. 5,373,316, Dec. 13, 1994, Video conference device with facsimile function; Iwao Ishinabe, et al., 348/15; 379/93.21, 100.01 [IMAGE AVAILABLE]

18. 5,325,194, Jun. 28, 1994, Multipoint video conferencing system; Hiroaki Natori, et al., 348/15, 159 [IMAGE AVAILABLE]

19. 5,261,404, Nov. 16, 1993, Three-dimensional mammal anatomy imaging system and method; Peter R. Mick, et al., 600/425; 128/916; 600/160 [IMAGE AVAILABLE]

20. 5,228,112, Jul. 13, 1993, Inspection control system and method; Jerome H. Lemelson, 704/275; 348/441; 364/281.3, DIG.1; 381/110; 382/100, 128; 704/270 [IMAGE AVAILABLE]

21. 5,111,103, May 5, 1992, Plural unit monitor; Denyse DuBrucq, 313/2.1, 3 [IMAGE AVAILABLE]

s voice (3a) control?

```
        37606 VOICE
      1394753 CONTROL?
L1       5121 VOICE (3A) CONTROL?
```

=> s l1 (5a) image

```
       285545 IMAGE
L2         53 L1 (5A) IMAGE
```

=> d 13 14 16 17 24 42 43

13. 5,745,711, Apr. 28, 1998, Display control method and apparatus for an electronic conference; Chiho Kitahara, et al., 345/330, 332 [IMAGE AVAILABLE]

14. 5,737,491, Apr. 7, 1998, Electronic imaging system capable of image capture, local wireless transmission and voice recognition; James D. Allen, et al., 704/270; 348/211; 396/283; 704/272, 275 [IMAGE AVAILABLE]

16. 5,717,744, Feb. 10, 1998, Data communicating apparatus having user notification capability and method; Takehiro Yoshida, et al., 358/434, 438; 379/100.06 [IMAGE AVAILABLE]

17. 5,717,498, Feb. 10, 1998, Facsimile machine for receiving, storing, and reproducing associated image data and voice data; Shingo Itoh, 358/434, 444, 468; 379/100.01 [IMAGE AVAILABLE]

24. 5,538,255, Jul. 23, 1996, Remote controlled multiplayer video game; Bruce J. Barker, 463/41, 47 [IMAGE AVAILABLE]

42. 5,301,228, Apr. 5, 1994, Communication device with a detachable recording medium; Yoshihiro Kakigi, et al., 379/100.02, 68, 73, 908 [IMAGE AVAILABLE]

43. 5,297,146, Mar. 22, 1994, Communication terminal apparatus and its control method; Fukushige Ogawa, 370/522, 271; 379/88.13, 93.17, 100.12, 206 [IMAGE AVAILABLE]

=> d kwic 1-

US PAT NO: 5,923,679 [IMAGE AVAILABLE] L2: 1 of 53

SUMMARY:

BSUM(7)

Accordingly, . . . that can improve error detection and error correction capability in the transmission of extremely important information or signals (for example, **voice**, **image**, **control** information, etc.) without lowering the transmission efficiency.

US PAT NO: 5,903,734 [IMAGE AVAILABLE] L2: 2 of 53

DETDESC:

DETD(7)

A . . . 46 connects the apparatus to a communication network, such as an ISDN or the like. A multiplexing/separation unit 48 multiplexes **image** information, **voice** information and **control** information to be transmitted, in accordance with the H. 221 format, supplies the network interface unit 46 with the resultant. . .

US PAT NO: 5,893,037 [IMAGE AVAILABLE] L2: 3 of 53

CLAIMS:

CLMS(13)

13. . . .
for supplying a voice command signal to the control means, wherein the control means controls the operation of the electronic/silver-halide **image** capture system based on the **voice** command signal and **control** means for controlling the operation of the electronic image sensor, the exposure means, the processing means, the memory means, and. . .

US PAT NO: 5,867,209 [IMAGE AVAILABLE] L2: 4 of 53

DETDESC:

DETD(40)

It . . . transmission speed of 14,400 bps (bit per second) on the analog public telephone line (PSTN). As the process unit, the **image** data, the **voice** data, or the **control** data are constituted as a packet data structure. These packet data are transmitted in the time divisional multiplex mode. The. . .

DETDESC:

DETD(42)

The . . . with reference to FIG. 6a and FIG. 6b. In this case, as the transmit data and the receive data, the **image** data, the **voice** data, and the **control** data are constituted as a data packet structure. These data packets are transmitted in the time divisional multiplex manner. Since. . .

US PAT NO: 5,847,840 [IMAGE AVAILABLE] L2: 5 of 53

DETDESC:

DETD(12)

The transmission memory 12 receives the above **image** information, **voice** information, **control** information, boundary information, and the like and generates them in accordance with the order based on a transmitting format as. . .

US PAT NO: 5,838,921 [IMAGE AVAILABLE] L2: 6 of 53

SUMMARY:

BSUM(5)

Communication . . . information. Two types of information flow occurs on a network: user information and control information. User information includes text and **image** data as well as **voice**. **Control** information consists of information to establish a network connection as well as maintain a quality of service for that established. . .

US PAT NO: 5,821,9[redacted] [IMAGE AVAILABLE] L[redacted] 7 of 53

SUMMARY:

BSUM(18)

A . . . data, such as still picture data and computer data, other than the motion picture data. A controller 25 controls the **image** selection **control** unit 22, the **voice** mixer 23, and the data selection control unit 24.

DETDESC:

DETD(72)

The . . . by the MUX/DMUX control unit 21. The images, the voices, and the other data thus demultiplexed are distributed to an **image** selection **control** unit 22, a **voice** mixer 23, and a data selection control unit 24, respectively. Under the control of a controller 25, the **image** selection **control** unit 22, the **voice** mixer 23, and the data selection control unit 24 perform switching between data to be transmitted, and the voice mixer. . .

US PAT NO: 5,812,224 [IMAGE AVAILABLE] L2: 8 of 53

DETDESC:

DETD(3)

As . . . display apparatus body 11, a pair of speakers 5 for outputting predetermined voice information, and a control unit 14 for **controlling** output **voice/image** information. Only one of the support members 2 and only one of the speakers 5 are shown in FIGS. 1. . .

DETDESC:

DETD(8)

The drive circuit 14a is connected to a cable 15 extending from a signal generating unit (not shown), which is **controlled** to generate predetermined **voice** and **image** signals.

US PAT NO: 5,808,987 [IMAGE AVAILABLE] L2: 9 of 53

DETDESC:

DETD(79)

The voice data is outputted to a speaker 123 by **voice** output **control** means 124, and the **image** data is outputted to a liquid crystal display 126 by image output control means 127.

US PAT NO: 5,802,150 [IMAGE AVAILABLE] L2: 10 of 53

SUMMARY:

BSUM(3)

The . . . controlling communication functions, and more specifically to controller boards associated with personal and other desktop computers that are suitable for **controlling** data, **voice**, **image** and multimedia communication functions.

US PAT NO: 5,796,435 [IMAGE AVAILABLE] L2: 11 of 53

DETDESC:

DETD(4)

In . . . 30d connected via the communication network 314 will be explained. In the TV conference device 30, data transfer via the **image** CODEC 301, the display **controller** 302, the **voice** CODEC 303, the communication controller 305, the keyboard 306, the mouse 307, the memory means 308, and the bus 309. . .

US PAT NO: 5,758,185 [IMAGE AVAILABLE] L2: 12 of 53

DETDESC:

DETD(3)

This . . . apparatus comprises a game soft storing medium, such as CD-ROM, etc., a CPU of 32 bits, a control unit for transfer-**control** of **image** and **voice** data and for interfacing each apparatus, an image data extension and transformation unit, an image data output unit, a voice. . .

CLAIMS:

CLMS(1)

What . . .
source of program signals, said peripheral equipment being selected from a group consisting of a controller, a control unit for transfer-**control** of **image** and **voice** data, an interfacing apparatus, **image** data extension and transformation units, an image data output unit, a voice data output unit, a video encoder unit, a. . .

US PAT NO: 5,745,711 [IMAGE AVAILABLE] L2: 13 of 53

DETDESC:

DETD(87)

The conference management module 921 receives the conference management data packet (969) and discriminates whether it is the **image** from which station or the **voice** sound and generate **control** commands to the **image** decoding module 923 and audio decoding module 926 so as to decode each packet for every station (991, 993).

CLAIMS:

CLMS(9)

9. . . .
function such that when the window obtains input focus through an operation of an input device, movement of the moving **image** and/or volume of the **voice** sounds are **controlled** in accordance with whether or not the window which has input focus is one of the windows used in the. . .

US PAT NO: 5,737,491 [IMAGE AVAILABLE] L2: 14 of 53

ABSTRACT:
A . . . files, the digital image files having associated information for controlling a remote image fulfillment server; a voice recorder for digitizing **voice** commands relating to **control** of the **image** fulfillment server; and a transmitter for transmitting the digital image file to the image fulfillment server. Either the camera or the fulfillment server includes a voice recognition module responsive to the

digitized **voice** comman[redacted]for producing **control** signals f[redacted] the **image** fulfillment serve[redacted] The image fulfillment server i[redacted]udes a receiver for receiving the digital image file and control signals; a memory. . .

SUMMARY:

BSUM(6)

The . . . files, the digital image files having associated information for controlling a remote image fulfillment server; a voice recorder for digitizing **voice** commands relating to **control** of the **image** fulfillment server; and a transceiver for transmitting the digital image file to the image fulfillment server. Either the camera or the fulfillment server includes a voice recognition module responsive to the digitized **voice** commands for producing **control** signals for the **image** fulfillment server. The image fulfillment server includes a transceiver for receiving the digital image file and control signals; a memory. . .

DETDESC:

DETD(3)

The voice recognition module 30 recognizes **voice** commands and produces **control** signals for use by an **image** fulfillment server 34 as described below. The digital camera 10 also includes a transceiver 32 for transmitting the digital images,. . .

CLAIMS:

CLMS(1)

We . . .
files, the digital image files having associated information for controlling a remote image fulfillment server;
iii) a voice recorder for digitizing **voice** commands relating to **control** of the **image** fulfillment server; and
iv) a transmitter for transmitting the digital image file to the image fulfillment server;
b) a voice recognition module responsive to the digitized **voice** commands for producing **control** signals for the **image** fulfillment server; and
c) an image fulfillment server, having:
i) a receiver for receiving the digital image file and control signals;
ii). . .

US PAT NO: 5,724,579 [IMAGE AVAILABLE] L2: 15 of 53

SUMMARY:

BSUM(3)

Digital still cameras are capable of recording, as files, **image** data, **voice** data, **control** data, etc. on such recording media as IC memory cards, magnetic media (hard disks or floppy disks), opto-magnetic media, etc.

DETDESC:

DETD(9)

In the digital still camera, in which **image** data, **voice** data, **control** data, etc. are recorded as files on a recording medium, such as a memory card, a magnetic medium (a hard. . .

US PAT NO: 5,717,74[redacted] [IMAGE AVAILABLE] L[redacted] 16 of 53

CLAIMS:

CLMS(30)

30. . . .
circuit and voice generation circuit,
where said control unit discriminates signals received from said receiving circuit, determines a kind of the **image** data, and **controls** said **voice** generation circuit so that said voice generation circuit generates a voice message output to said speaker circuit in accordance with. . .

US PAT NO: 5,717,498 [IMAGE AVAILABLE] L2: 17 of 53

SUMMARY:

BSUM(13)

According . . . line, voice data representing voices and image data representing images; data storage means for storing the voice data and the **image** data; storage control means for **controlling**, when **voice** data and **image** data are both transmitted during a single reception operation, the data storage means to store the voice data and image. . .

SUMMARY:

BSUM(14)

According . . . line, voice data representing voices and image data representing images; data storage means for storing the voice data and the **image** data; storage control means for **controlling**, when **voice** data and **image** data are both transmitted during a single reception operation, the data storage means to store the voice data and image. . .

CLAIMS:

CLMS(1)

What . . .
for respectively reproducing the voice data and the image data stored in the data storage means; and
reproduction control means for **controlling**, when **voice** data and **image** data are both transmitted during a single reception operation and are stored in the data storage means in correspondence with. . .

CLAIMS:

CLMS(2)

2. A facsimile machine as claimed in claim 1, further comprising storage control means for **controlling**, when **voice** data and **image** data are both transmitted during a single reception operation, the data storage means to store the voice data and image. . .

CLAIMS:

CLMS(8)

8. . . . voice data and image data which are stored in the data storage means in correspondence with each other, the reproduction **control** means actuating the **voice** reproducing means and the **image** reproducing means so that either one of the voice reproducing

means and the image reproducing means is actuated first.

CLAIMS:

CLMS(10)

10. . . .
telephone line, voice data representing voices and image data representing images;
data storage means for storing the voice data and the **image** data;
storage control means for **controlling**, when **voice** data and **image** data are both transmitted during a single reception operation, the data storage means to store the voice data and image. . . voice data and image data which are stored in the data storage means in correspondence with each other, the reproduction **control** means actuating the **voice** reproducing means and the **image** reproducing means so that either one of the voice reproducing means and the image reproducing means is actuated first.

CLAIMS:

CLMS(13)

13. . . .
image data representing images;
a data storage unit that stores the voice data and the image data;
a storage control unit that **controls**, when **voice** data and **image** data are both transmitted during a single reception operation, the data storage unit to store the voice data and image. . . voice data and image data which are stored in the data storage unit in correspondence with each other, the reproduction **control** unit actuating the **voice** reproducing unit and the **image** reproducing unit so that either one of the voice reproducing unit and the image reproducing unit is actuated first.

US PAT NO: 5,712,649 [IMAGE AVAILABLE] L2: 18 of 53

DETDESC:

DETD(4)

FIG. . . . the same manner that glasses are worn. Housing 2 has on one side an input terminal 4 which receives an **image** signal and a **voice** signal or a **control** signal for display 1, and on the other side a power source terminal 5. The user attaches a television tuner. . .

US PAT NO: 5,636,839 [IMAGE AVAILABLE] L2: 19 of 53

DETDESC:

DETD(14)

As . . . laser beam projector 431 and a lamp 441. The foregoing units are connected to the host computer 100 through an **image** control unit 410, a sound/**voice control** unit 420, a laser beam control unit 430 and a lamp switching unit 440. The printing apparatus 23 disposed in. . .

US PAT NO: 5,619,252 [IMAGE AVAILABLE] L2: 20 of 53

DETDESC:

DETD(11)

Normal . . . input from image pickup equipment 62, for example, a

camera, are input to this CODEC equipment 11 by the CODEC **controller** 12. The **voice** signal and **image** signal are encoded in this CODEC controller 12 and are output to line control equipment 41. A signal obtained by. . .

US PAT NO: 5,611,018 [IMAGE AVAILABLE] L2: 21 of 53

DETDESC:

DETD(223)

A . . . ring memory 320 and read addresses of sound data from the ring memory 320. The time difference between a reproduced **image** and reproduced **voice** is presumed, to **control** the compression rate used for the compression processing performed by the voice speed converter 318.

US PAT NO: 5,587,735 [IMAGE AVAILABLE] L2: 22 of 53

DETDESC:

DETD(29)

The . . . input/output control of the key panel unit 23 and the hardware control such as setting and maintaining the three-system multiplex-separation **control** of **voice**, **image** and data as well as the man-machine interface control such as message output to the display screen.

DETDESC:

DETD(59)

In FIG. 7, reference numeral 60 designates a video telephone which comprises the microprocessor 24c, the signal-multiplex-separation control circuit 24a, the **image** CODEC 22, the **voice** communication **control** circuit 24d and the ISDN-user-network interface control circuit 24b. Further, 66 designates an external video tape recorder, and 67, an. . .

CLAIMS:

CLMS(1)

What . . .
signal to be coded;
(e) a display for displaying an image represented by an image signal which is decoded by said **image** CODEC;
(f) a **voice** communication **controller** for decoding **voice** data, which are separated by said multiplexor-separator into voice signal and for coding an input voice signal into voice data. . .

CLAIMS:

CLMS(3)

3. . . .
signal to be coded;
(e) a display for displaying an image represented by an image signal which is decoded by said **image** CODEC;
(f) a **voice** communication **controller** for decoding **voice** data, which are separated by said multiplexor-separator, into voice signal and for coding an input voice signal into voice data. . .

CLAIMS:

CLMS(4)

4. . . .
signal to be coded;
(e) a display for displaying an image represented by an image signal which is decoded by said **image** CODEC;
(f) a **voice** communication **controller** for decoding **voice** data, which are separated by said multiplexor-separator, into voice signal and for coding an input voice signal into voice data. . .

CLAIMS:

CLMS(5)

5. . . .
signal to be coded;
(e) a display for displaying an image represented by an image signal which is decoded by said **image** CODEC;
(f) a **voice** communication **controller** for decoding **voice** data, which are separated by said multiplexor-separator, into voice signal and for coding an input voice signal into voice data. . . of user data between said multiplexor-separator and said data terminal;
(s) a base section incorporating said communication controller, said multiplexor-separator, said **image** CODEC, said **voice** communication **controller**, said speaker, said microphone, said power supply unit, said key input unit, said image input terminal, said image output terminal,. . .

CLAIMS:

CLMS(7)

7. . . .
signal to be coded;
(e) a display for displaying an image represented by an Image signal which is decoded by said **image** CODEC;
(f) a **voice** communication **controller** for decoding **voice** data, which are separated by said multiplexor-separator, into voice signal and for coding an input voice signal into voice data. . .

CLAIMS:

CLMS(8)

8. . . .
signal to be coded;
(e) a display for displaying an image represented by an image signal which is decoded by said **image** CODEC;
(f) a **voice** communication **controller** for decoding **voice** data, which are separated by said multiplexor-separator, into voice signal and for coding an input voice signal into voice data. . .

CLAIMS:

CLMS(9)

9. . . .
signal to be coded;
(e) a display for displaying an image represented by an image signal which is decoded by said **image** CODEC;
(f) a **voice** communication **controller** for decoding **voice** data, which are separated by said multiplexor-separator, into voice signal and for coding an input voice signal into voice data. . .

CLAIMS:

CLMS(11)

11. . . .
signal to be coded;
(e) a display for displaying an image represented by an image signal which is decoded by said **image** CODEC;
(f) a **voice** communication **controller** for decoding **voice** data, which are separated by said multiplexor-separator, into voice signal and for coding an input voice signal into voice data. . . of user data between said multiplexor-separator and said facsimile terminal;
(s) a base section incorporating said communication controller, said multiplexor-separator, said **image** CODEC, said **voice** communication **controller**, said speaker, said microphone, said power supply unit, said key input unit, said image input terminal, said image output terminal,. . .

CLAIMS:

CLMS(13)

13. . . .
signal to be coded;
(e) a display for displaying an image represented by an image signal which is decoded by said **image** CODEC;
(f) a **voice** communication **controller** for decoding **voice** data, which are separated by said multiplexor-separator, into voice signal and for coding an input voice signal into voice data. . .

US PAT NO: 5,565,992 [IMAGE AVAILABLE] L2: 23 of 53

DETDESC:

DETD(12)

The transmission memory 12 receives the above **image** information, **voice** information, **control** information, boundary information, and the like and generates them in accordance with the order based on a transmitting format as. . .

US PAT NO: 5,538,255 [IMAGE AVAILABLE] L2: 24 of 53

CLAIMS:

CLMS(1)

What . . .
controller for generating in response to said plurality of local and remote image control commands, a local sequence of game **image** frames,
a **voice** communication **controller** for transmitting a speech signal representative of a local player's voice to allow the local player to speak with a. . .

CLAIMS:

CLMS(4)

4. . . . means for connecting to a first telephone line for transmitting said local image control commands and for receiving said remote **image** control commands, and wherein said **voice** communication **controller** is connected to a second telephone line for transmitting a speech signal representative of the local player's voice to allow. . .

CLAIMS:

CLMS(5)

5. . . .
connection means for connection to a second telephone line for receiving from said remote game controller said plurality of remote **image control** commands; and
said **voice** communication **controller** is connected to a third telephone line for transmitting a speech signal representative of the local player's voice to allow. . .

US PAT NO: 5,532,840 [IMAGE AVAILABLE] L2: 25 of 53

DETDESC:

DETD(31)

Next, the input/output **control** operation of the **voice** data and the **image** data is described referring to FIGS. 9 to 10. First, the input/output control operation of the image data is described.

US PAT NO: 5,530,873 [IMAGE AVAILABLE] L2: 26 of 53

DETDESC:

DETD(3)

This . . . apparatus comprises a game soft storing medium, such as CD-ROM, etc., a CPU of 32 bits, a control unit for transfer-**control** of **image** and **voice** data and for interfacing each apparatus, an image data extension and transformation unit, an image data output unit, a voice. . .

US PAT NO: 5,521,716 [IMAGE AVAILABLE] L2: 27 of 53

DETDESC:

DETD(15)

The . . . voice messages and image digital data representing image messages, and is a part of the RAM 142C of the system **control** unit 142. The **voice/image** memory 146 is controlled based on a unit of four kilobytes by the CPU 142A when being accessed for storage. . .

US PAT NO: 5,499,922 [IMAGE AVAILABLE] L2: 28 of 53

CLAIMS:

CLMS(4)

4. . . .
data operating kind and operating timing according to the header information, and outputting commands in predetermined timing for synchronizing the **voice controller** and the **image** display means with the reproduced electronic sound.

US PAT NO: 5,485,897 [IMAGE AVAILABLE] L2: 29 of 53

DETDESC:

DETD(102)

With . . . output unit 208 for outputting voice from the control center 242, a voice input unit 210 for sending the passenger's **voice** to the **control** center 242 and an **image** pickup unit 209 for sending an inside image of the car to the center 242 when required.

DETDESC:

DETD(107)

The control circuit 217 feeds the emergency signal to an emergency **image-voice** change-over **control** circuit 216 serving as the above-mentioned change-over unit 206 for the circuit 216 to control the operation of the image-voice. . .

DETDESC:

DETD(108)

In . . . actuating the input unit 214 and the transmission unit 215 into operation for the input unit 214 to accept an **image** signal and **voice** signal from the **control** center 242. The **image** pickup unit 209 and the voice input unit 210 delivers an **image** signal and **voice** signal to the **control** center 242 via the transmission unit 215.

DETDESC:

DETD(113)

The . . . an elevator control state input unit 228 to an elevator control state display unit 223 and also to an emergency **image-voice** transmission **control** circuit 227 at the same time. Inside the center 242, the display unit 223 shows the operating state of the. . .

US PAT NO: 5,473,366 [IMAGE AVAILABLE] L2: 30 of 53

DETDESC:

DETD(64)

Reference . . . circuit 642 into a H.221 format to supply them to the circuit interface 646. Further, the separation/multiplexing circuit 648 separates **image**, **voice** and **control** signals from information supplied from the circuit interface 646 to supply the signals to the image decoding circuit 624, the. . .

DETDESC:

DETD(150)

Reference . . . circuit 1042 into a H.221 format to supply them to the circuit interface 1046. Further, the separation/multiplexing circuit 1048 separates **image**, **voice** and **control** signals from information supplied from the circuit interface 1046 to supply the signals to the image decoding circuit 1024, the. . .

US PAT NO: 5,459,581 [IMAGE AVAILABLE] L2: 31 of 53

SUMMARY:

BSUM(11)

It is yet another object of the present invention to provide an **image** communication apparatus which stores **control** information of recorded **voice** messages and prints out the control information.

US PAT NO: 5,438,428 [IMAGE AVAILABLE] L2: 32 of 53

DETDESC:

DETD(15)

The . . . voice messages and image digital data representing image messages, and is a part of the RAM 142C of the system **control** unit 142. The **voice/image** memory 146 is controlled based on a unit of four kilobytes by the CPU 142A when being accessed for storage. . .

US PAT NO: 5,426,692 [IMAGE AVAILABLE] L2: 33 of 53

CLAIMS:

CLMS(1)

What . . .
voice data; and
image communication means for performing communication of image data, wherein said control means controls image communication control of said **image** communication means and **voice** communication **control** of said digital telephone unit.

US PAT NO: 5,426,518 [IMAGE AVAILABLE] L2: 34 of 53

SUMMARY:

BSUM(11)

It is yet another object of the present invention to provide an **image** communication apparatus which stores **control** information of recorded **voice** messages and prints out the control information.

US PAT NO: 5,418,560 [IMAGE AVAILABLE] L2: 35 of 53

DETDESC:

DETD(9)

In . . . signal from the system control unit 11 on a transmission frame unit basis. The reception frame is separated into the **image** code, **voice** code, and **control** signal and supplied to the video decode unit 6b of the video encode/decode unit 6, voice decode unit 9b of. . .

DETDESC:

DETD(26)

In . . . reception frame is received from the communication line 14 via the line I/F unit 13 and is separated into the **image** code and the **voice** code and the **control** signal of the system control unit 11 by the separating/multiplexing unit 12. The image code is decoded by the video. . .

US PAT NO: 5,400,068 [IMAGE AVAILABLE] L2: 36 of 53

DETDESC:

DETD(30)

The . . . input/output control of the key panel unit 23 and the hardware control such as setting and maintaining the three-system multiplex-separation **control** of **voice**, **image** and data as well as the man-machine interface control such as message output to the display screen.

DETDESC:

DETD(60)

In FIG. 7, reference numeral 60 designates a video telephone which comprises the microprocessor 24c, the signal-multiplex-separation control circuit 24a, the **image** CODEC 22, the **voice** communication **control** circuit 24d and the ISDN-user-network interface control circuit 24b. Further, 66 designates an external video tape recorder, and 67, an. . .

CLAIMS:

CLMS(1)

What . . .
signal to be coded;
(e) a display for displaying an image represented by an image signal which is decoded by said **image** CODEC;
(f) a **voice** communication **controller** for decoding **voice** data, which are separated by said multiplexor-separator, into a voice signal and for coding an input voice signal into voice. . .

CLAIMS:

CLMS(2)

2. . . .
signal to be coded;
(e) a display for displaying an image represented by an image signal which is decoded by said **image** CODEC;
(f) a **voice** communication **controller** for decoding **voice** data, which are separated by said multiplexor-separator, into a voice signal and for coding an input voice signal into voice. . .

CLAIMS:

CLMS(3)

3. . . .
signal to be coded;
(e) a display for displaying an image represented by an image signal which is decoded by said **image** CODEC;
(f) a **voice** communication **controller** for decoding **voice** data, which are separated by said multiplexor-separator, into a voice signal and for coding an input voice signal into voice. . .

CLAIMS:

CLMS(4)

4. . . .
signal to be coded;
(e) a display for displaying an image represented by an image signal which is decoded by said **image** CODEC;
(f) a **voice** communication **controller** for decoding **voice** data, which are separated by said multiplexor-separator, into a voice signal and for coding an input voice signal into voice. . .

CLAIMS:

CLMS(8)

8. . . .
signal to be coded;
(e) a display for displaying an image represented by an image signal which is decoded by said **image** CODEC;

(f) a **voice** communication **controller** for decoding **voice** data, which are separated by said multiplexor-separator into a voice signal and for coding an input voice signal .into voice. . .

CLAIMS:

CLMS(9)

9. . . .
signal to be coded;
(e) a display for displaying an image represented by an image signal which is decoded by said **image** CODEC;
(f) a **voice** communication **controller** for decoding **voice** data, which are separated by said multiplexor-separator, into a voice signal and for coding an input voice signal into voice. . .

CLAIMS:

CLMS(10)

10. . . .
signal to be coded;
(e) a display for displaying an image represented by an image signal which is decoded by said **image** CODEC;
(f) a **voice** communication **controller** for decoding **voice** data, which are separated by said multiplexor-separator, into a voice signal and for coding an input voice signal into voice. . .

CLAIMS:

CLMS(11)

11. . . .
signal to be coded;
(e) a display for displaying an image represented by an image signal which is decoded by said **image** CODEC;
(f) a **voice** communication **controller** for decoding **voice** data, which are separated by said multiplexor-separator, into a voice signal and for coding an input voice signal into voice. . .

US PAT NO: 5,392,158 [IMAGE AVAILABLE] L2: 37 of 53

DETDESC:

DETD(4)

FIG. . . . the same manner that glasses are worn. Housing 2 has on one side an input terminal 4 which receives an **image** signal and a **voice** signal or a **control** signal for display 1, and on the other side a power source terminal 5. The user attaches a television tuner. . .

US PAT NO: 5,373,316 [IMAGE AVAILABLE] L2: 38 of 53

CLAIMS:

CLMS(1)

What . . .
converting a digital signal to a signal for the facsimile unit;
facsimile control means for controlling said telephone network simulator;
multiplexing/demultiplexing communication **control** means for multiplexing **voice**, **image** and facsimile communication data and sending the multiplexed data to a communication network and demultiplexing multiplexed data from the communication. . .

CLAIMS:

CLMS(2)

2. . . .
converting a digital signal to a signal for the facsimile unit;
facsimile control means for controlling said telephone network simulator;
multiplexing/demultiplexing communication **control** means for multiplexing **voice**, **image** and facsimile communication data into a single multiplexed signal including said voice, image and facsimile communication data and sending the. . .

CLAIMS:

CLMS(40)

40. . . .
converting a digital signal to a signal for the facsimile unit;
facsimile control means for controlling said telephone network simulator;
multiplexing/demultiplexing communication **control** means for multiplexing **voice**, **image** and facsimile communication data and sending the multiplexed data to a communication network and demultiplexing multiplexed data from the communication. . .

US PAT NO: 5,325,194 [IMAGE AVAILABLE] L2: 39 of 53

DETDESC:

DETD(15)

FIG. . . . line interface 44 provides an interface between the transmission line and the CT 10. The line interface 44 separates an **image** data, **control** data and **voice** data from a multiple input signal. The image data are separated into the high speed image signal and the low. . .

US PAT NO: 5,311,573 [IMAGE AVAILABLE] L2: 40 of 53

SUMMARY:

BSUM(11)

Another object of the present invention is to provide a communication apparatus which includes a first controller to control **image** data communication, and a second **controller** to control **voice** communication, both of which control independently.

US PAT NO: 5,303,148 [IMAGE AVAILABLE] L2: 41 of 53
TITLE: **Voice** actuated volume **image controller** and display controller

US PAT NO: 5,301,228 [IMAGE AVAILABLE] L2: 42 of 53

CLAIMS:

CLMS(8)

8. . . .
a detachable recording medium;
memory means for storing index information, including a message number and a message position, for the first **voice/image** signal;
control information recording means for recording the index information for the first voice/image signal on the detachable

recording medium;
erasing/rerecording [redacted]s for. . .

US PAT NO: 5,297,146 [IMAGE AVAILABLE] L2: 43 of 53

ABSTRACT:
A . . . parallel execution of a plurality of communications with use of a plurality of data channels. The terminal apparatus comprises an **image** main **controller** and a **voice** main **controller** which can be operated independently of each other, two network controllers operated as associated with the operations of these **image** and **voice** main **controllers** respectively, two **image** transmission control circuits which are operated independently of each other, and an image file capable of storing image and voice. . .

SUMMARY:

BSUM(20),

The . . . operation control means for controlling operations of the key input means and the display means, voice main control means for **controlling** operation on **voice** communication, **image** main **control** means for controlling operation on **image** communication, detection means for detecting a dial number of a signal originator terminal informed from the integrated digital service line. . .

DETDESC:

DETD(4)

In . . . An image main controller 5 is provided to carry out general operational control including the transmission, reception and copy of **image** communication. A **voice** main **controller** 6 is provided to carry out general operational control on voice communication including the control of a speech circuit to. . .

DETDESC:

DETD(5)

The communication terminal apparatus of the present invention of FIG. 1 has the **image** main **controller** 5 and **voice** main **controller** 6 separately provided as well as the two network controllers 11 and 12 separately provided as associated with the respective. . .

DETDESC:

DETD(33)

Thereafter, the image main **controller** 5 and the **voice** main **controller** 6 **control** the main operations of the **image** and voice processings, that is, individually monitor and execute the start and continuation of the processing, the detection of absence. . .

DETDESC:

DETD(53)

In . . . the network controllers 11 and 12, which are provided so as to be associated with the respective operations of the **image** main **controller** 5 and the **voice** main **controller** 6, are operated independently under the control associated with the network interface 13, thereby enabling the simultaneous processing of the. . .

CLAIMS:

CLMS(1)

What . . .
control means; and
image control means for carrying out an input/output processing operation of the image data controllably transmitted through said **image** transmission **control** means,
wherein **voice** speech in response to said voice control means with use of at least one of said plurality of network control. . .

CLAIMS:

CLMS(17)

17. . . .
of data channels of said integrated services digital line;
a second step of caring out a first communication of voice or **image** communication under **control** of said **voice control** means or said **image** control means with use of said first one of said plurality of data channels;
a third step, when a request for. . .

US PAT NO: 5,282,242 [IMAGE AVAILABLE] L2: 44 of 53

DETDESC:

DETD(4)

The . . . operations of the telephone line 2 with the opponent party, and also control the transmitting and receiving operations of the **image** data and **voice** signal. The communication **control** device 3 further includes a receiving level detection device 4, which detects the receiving level of the image data received. . .

US PAT NO: 5,267,245 [IMAGE AVAILABLE] L2: 45 of 53

DETDESC:

DETD(27)

Next, . . . instruction of the local processor 39, as described above. In the case of transmitting or receiving normal data such as **image** data other than **voice** data, the channel **control** switches 36 and 37 are controlled to connect the contact point B1b with the contact point a and the contact. . .

US PAT NO: 5,261,404 [IMAGE AVAILABLE] L2: 46 of 53

DETDESC:

DETD(46)

Information . . . facilitate the assistants and nurses in their support during the surgical procedure. The surgeon's goggles will have the ability, under voice command **control**, to remove the **image** of the anatomy and present a view through a transparent window to the outside world. This function could be implemented. . .

US PAT NO: 5,228,112 [IMAGE AVAILABLE] L2: 47 of 53

DETDESC:

DETD(35)

15. **Voice** signal control of **image** field orientation.

DETDESC:

DETD(39)

19. Voice signal control of a recorder containing various **image** signal recording to be used in image analysis and/or pattern recognition functions defining the automatic analysis operation wherein such control. . .

US PAT NO: 5,220,559 [IMAGE AVAILABLE] L2: 48 of 53

SUMMARY:

BSUM(6)

A neural network can be utilized for pattern recognition of a character **image**, a **voice** pattern recognition, **control** of a robot in a machine control, applications for expert systems in knowledge processing, compression and decompression of images in. . .

US PAT NO: 5,200,836 [IMAGE AVAILABLE] L2: 49 of 53

DRAWING DESC:

DRWD(8)

FIG. 7 is a flow chart of a **control** sequence for **voice** message reproduction and image data recording in said second embodiment.

US PAT NO: 5,170,266 [IMAGE AVAILABLE] L2: 50 of 53

ABSTRACT:
A . . . in the resolution in which the document is originally received or generated; (2) allows transmission, receipt and storage of document **image** information and speech or **voice** signals; (3) allows **control** of the destination address and route used for transmitted document and speech infomation, using the DTMF touch tone signaling available. . .

US PAT NO: 5,168,548 [IMAGE AVAILABLE] L2: 51 of 53

CLAIMS:

CLMS(1)

What . . .
providing selectable sections, selection of sections being controllable by said speech recognition means thereby to generate a report text under **voice control**;
means for converting text to **image** data; and means for modulating an audio band signal with image data for facsimile transmission over telephone lines, said command. . .

US PAT NO: 5,111,103 [IMAGE AVAILABLE] L2: 52 of 53

DETDESC:

DETD(77)

This Interactive System can be expanded to image **control** by both **voice** command and touch command making the size of an image, still or motion, and auxiliary displayed information as well as. . .

US PAT NO: 5,008,926 [IMAGE AVAILABLE] L2: 53 of 53

SUMMARY:

In . . . messages and instructions for providing voice messages relating to such image transmissions and mass storage subsystem apparatus coupled to the control subsystem for storing voice and image transmissions. The storage is in digital form. According to a preferred embodiment of the invention, the image is stored in. . .

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(FILE 'USPAT' ENTERED AT 07:02:18 ON 18 AUG 1999)
L1 5121 S VOICE (3A) CONTROL?
L2 53 S L1 (5A) IMAGE